

# Flu Watch

MMWR Week 18: April 29 to May 5, 2018

*All data are provisional and subject to change as more reports are received.*

## Geographic Spread



South Carolina reported **local activity** this week.



## Influenza-Associated Hospitalizations and Deaths

A total of **16** influenza-associated hospitalizations were reported by 32 hospitals. The cumulative hospitalization rate is **89.8** per 100,000. There were **4** laboratory-confirmed influenza-associated deaths reported; however, **all** deaths except for one occurred in previous weeks. The cumulative mortality rate is **5.4** per 100,000. Compared to the previous week, the number of reported hospitalizations **decreased** by **6 (27.3%)** and number of reported deaths **remained the same**. In the current flu season, there have been **4,458** influenza-associated hospitalizations and **269** influenza-associated deaths reported.



## Virologic Surveillance

A total of **274** influenza cases (**267** positive rapid antigen detection tests; **7** lab-confirmed tests) were reported from 26 counties representing all four DHEC Public Health regions. Influenza B was most frequently reported by clinical labs. Compared to the previous week, this is a **decrease** of **198** cases (**42.0%**). In the current flu season, there have been **134,701** influenza cases (**131,216** positive rapid antigen detection tests; **3,485** lab-confirmed tests) reported.



## Influenza-Like Illness Surveillance

The percent of patient visits to sentinel providers for an influenza-like illness (ILI) was **1.35%**, which is **below** South Carolina's baseline (**3.13%**). Compared to the previous week, this is an **increase** of **0.23%**.

The ILI activity level was **minimal**.

For a description of South Carolina's influenza surveillance components and definitions go to:

<http://www.scdhec.gov/Health/DiseasesandConditions/InfectiousDiseases/Flu/FluData/>

For national surveillance, please visit:

<https://www.cdc.gov/flu/weekly/>

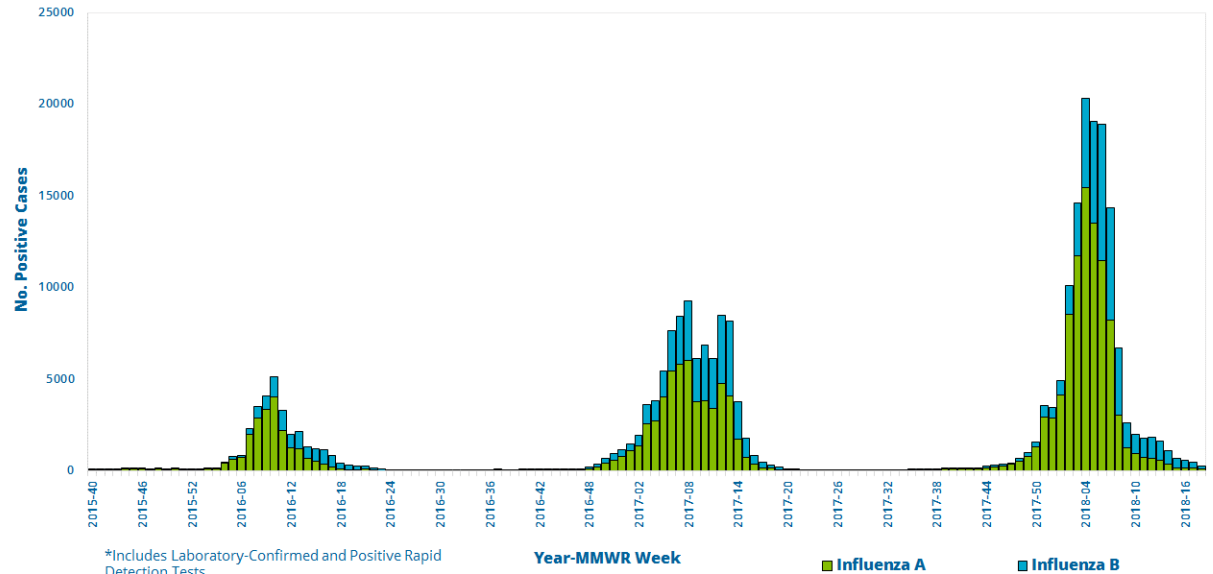


# Virologic Surveillance

This week, **7** lab-confirmed cases and **267** positive rapid influenza detection tests were reported by clinical labs.

**Influenza B** was most frequently reported by clinical labs.

**Influenza Cases\* Reported by Clinical and Public Health Labs, 2015-16 Season to Present**



**Influenza Cases Reported by Public Health and Clinical Labs, This Week and Season Total**

Influenza Type	Public Health Lab		Clinical Labs		Total	
	This Week	Season Total	This Week	Season Total	This Week	Season Total
<b>Overall</b>	<b>0</b>	<b>174</b>	<b>274</b>	<b>134,527</b>	<b>274</b>	<b>134,701</b>
<b>Influenza A</b>	<b>0</b>	<b>133 (76.4%)</b>	<b>90 (32.8%)</b>	<b>90967 (67.6%)</b>	<b>90 (32.8%)</b>	<b>91100 (67.6%)</b>
A (H3)	--	101 (75.9%)	---	388 (0.4%)	---	489 (0.5%)
A (H1N1)	--	32 (24.1%)	4 (4.4%)	167 (0.2%)	4 (4.4%)	199 (0.2%)
A (not subtyped)	--	--	86 (95.6%)	90412 (99.4%)	86 (95.6%)	90412 (99.3%)
<b>Influenza B</b>	<b>0</b>	<b>41 (23.6%)</b>	<b>183 (66.8%)</b>	<b>43049 (32.0%)</b>	<b>183 (66.8%)</b>	<b>43090 (32.0%)</b>
B (Victoria)	--	1 (2.4%)	--	--	--	1 (0.0%)
B (Yamagata)	--	35 (85.4%)	--	--	--	35 (0.1%)
B (lineage not performed)	--	5 (12.2%)	183 (100%)	43049 (100%)	183 (100%)	43054 (99.9%)
<b>Influenza (not typed)</b>	<b>--</b>	<b>--</b>	<b>1 (0.4%)</b>	<b>511 (0.4%)</b>	<b>1 (0.4%)</b>	<b>511 (0.4%)</b>



# Virologic Surveillance

Map of Influenza Cases (n)\*  
and Influenza Case Rate/100,000 By County  
For Week Ending 5/5/2018



\*Includes all lab-confirmed and positive rapid cases



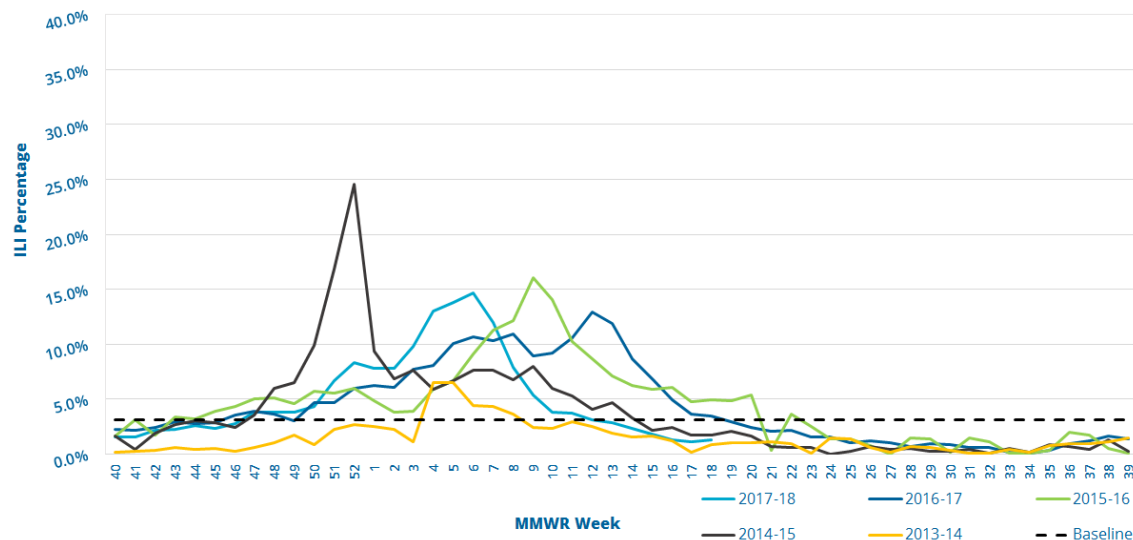
# Influenza-Like Illness Surveillance

This week, the ILI activity level was **minimal** and **1.35%** of patient visits to SC ILINet providers was attributed to an influenza-like illness. This is **below** the state baseline, **3.13%**.

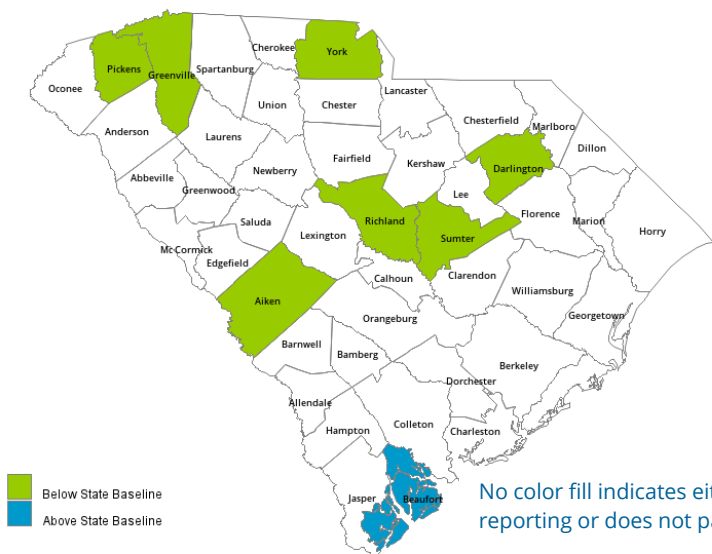
Reports were received from providers in 8 counties, representing all 4 DHEC Public Health regions.

\*\*ILI percentage is dependent upon the number of reporting providers and/or can vary by disease activity or the number of providers submitting reports.\*\*

Percentage of Influenza-Like Illness (ILI) Visits Reported by Sentinel Providers for Past and Current Seasons



County ILI Percent



State ILI Activity Level 2017-18 Calendar by Week of the Year

OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
40	44	48	1	5	9	14	18	22	27	31	35
41	45	49	2	6	10	15	19	23	28	32	36
42	46	50	3	7	11	16	20	24	29	33	37
43	47	51	4	8	12	17	21	25	30	34	38
		52			13			26			39

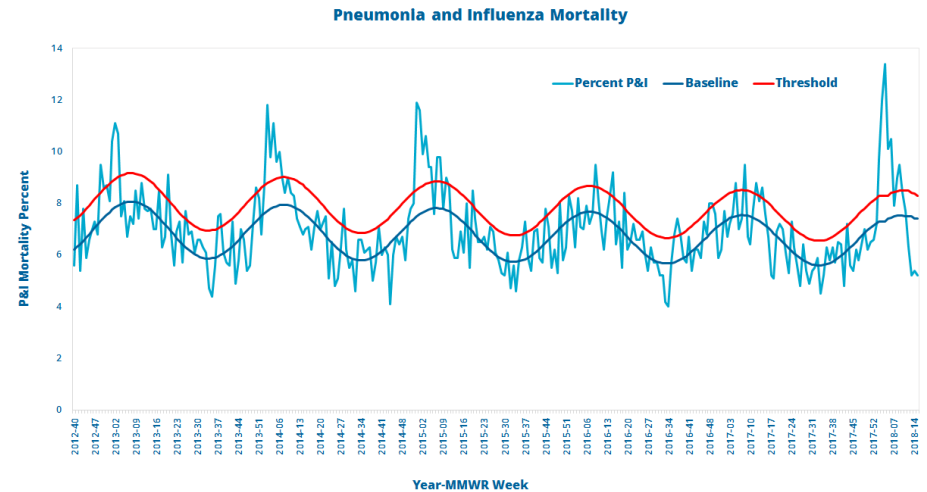
ILI ACTIVITY LEVELS: **MINIMAL** **LOW** **MODERATE** **HIGH**



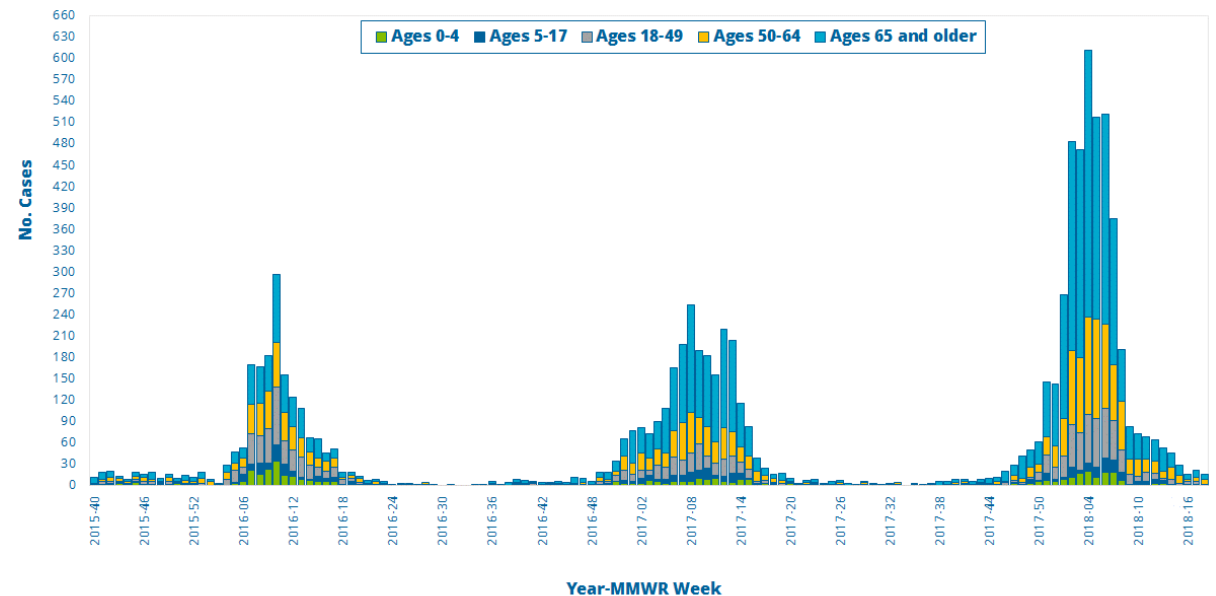
# Influenza-Associated Hospitalizations And Deaths

Age Group	Hospitalizations			Deaths		
	This Week	Rate per 100,000	Season Total	This Week	Rate per 100,000	Season Total
0 to 4	1	53.2	156	--	1.0	3
5 to 17	0	17.2	138	--	--	--
18 to 49	1	28.9	579	--	1.3	26
50 to 64	7	114.9	1046	--	4.9	45
65 & older	7	401.8	2539	1	30.8	195
Total	16	89.8	4458	1	5.4	269

The percentage of deaths attributed to pneumonia and influenza was 5.2%. This is **below** the epidemic threshold for the week ending April 14, 2018.



**Reported Influenza-Associated Hospitalizations by Age Group, 2015-16 Season to Present**



**Influenza-Associated Deaths by Region**

